FIG. 1A

```
  1 TTTCCTCACTGACTATAAAAGAATAGAGAAGGAAGGGCTTCAGTGACCGGCTGCCTGGCTGACTTACAGCAGTCAGACTCTGACAGGATC
 91 ATGGCTATGATGGAGGTCCAGGGGGGACCCAGCCTGGGACAGACCTGCGTGCTGATCGTGATCTTCACAGTGCTCCTGCAGTCTCTCTGT
  1 MetAlaMetMetGluValGlnGlyGlyProSerLeuGlyGlnThrCysValLeuIleValIlePheThrValLeuLeuGlnSerLeuCys
181 GTGGCTGTAACTTACGTGTACTTTACCAACGAGCTGAAGCAGATGCAGGACAAGTACTCCAAAAGTGGCATTGCTTGTTTCTTAAAAGAA
 31 ValAlaValThrTyrValTyrPheThrAsnGluLeuLysGlnMetGlnAspLysTyrSerLysSerGlyIleAlaCysPheLeuLysGlu
271 GATGACAGTTATTGGGACCCCAATGACGAAGAGAGTATGAACAGCCCCTGCTGGCAAGTCAAGTGGCAACTCCGTCAGCTCGTTAGAAAG
 61 AspAspSerTyrTrpAspProAsnAspGluGluSerMetAsnSerProCysTrpGlnValLysTrpGlnLeuArgGlnLeuValArgLys
361 ATGATTTTGAGAACCTCTGAGGAAACCATTTCTACAGTTCAAGAAAAGCAACAAAATATTTCTCCCCTAGTGAGAGAAAGAGGTCCTCAG
 91 MetIleLeuArgThrSerGluGluThrIleSerThrValGlnGluLysGlnGlnAsnIleSerProLeuValArgGluArgGlyProGln
451 AGAGTAGCAGCTCACATAACTGGGACCAGAGGAAGAAGCAACACATTGTCTTCTCCAAACTCCAAGAATGAAAAGGCTCTGGGCCGCAAA
121 ArgValAlaAlaHisIleThrGlyThrArgGlyArgSerAsnThrLeuSerSerProAsnSerLysAsnGluLysAlaLeuGlyArgLys
541 ATAAACTCCTGGGAATCATCAAGGAGTGGGCATTCATTCCTGAGCAACTTGCACTTGAGGAATGGTGAACTGGTCATCCATGAAAAAGGC
151 IleAsnSerTrpGluSerSerArgSerGlyHisSerPheLeuSerAsnLeuHisLeuArgAsnGlyGluLeuValIleHisGluLysGly
631 TTTTACTACATCTATTCCCAAACATACTTTCGATTTCAGGAGGAAATAAAAGAAAACACAAAGAACGACAAACAAATGGTCCAATATATT
181 PheTyrTyrIleTyrSerGlnThrTyrPheArgPheGlnGluGluIleLysGluAsnThrLysAsnAspLysGlnMetValGlnTyrIle
721 TACAAATACACAAGTTATCCTGACCCTATATTGTTGATGAAAAGTGCTAGAAATAGTTGTTGGTCTAAAGATGCAGAATATGGACTCTAT
211 TyrLysTyrThrSerTyrProAspProIleLeuLeuMetLysSerAlaArgAsnSerCysTrpSerLysAspAlaGluTyrGlyLeuTyr
811 TCCATCTATCAAGGGGGAATATTTGAGCTTAAGGAAAATGACAGAATTTTTGTTTCTGTAACAAATGAGCACTTGATAGACATGGACCAT
241 SerIleTyrGlnGlyGlyIlePheGluLeuLysGluAsnAspArgIlePheValSerValThrAsnGluHisLeuIleAspMetAspHis
901 GAAGCCAGTTTTTTCGGGGCCTTTTTAGTTGGCTAACTGACCTGGAAAGAAAAAGCAATAACCTCAAAGTGACTATTCAGTTTTCAGGAT
271 GluAlaSerPhePheGlyAlaPheLeuValGlyStp
991 GATACACTATGAAGATGTTTCAAAAAATCTGACCAAAACAAACAAACAGAAA
```

FIG. 1B

```
          ---B----                                                  --B'--  --C'--  --C--
41BBL  80 DPAGLLDLRQGMFAQLVAQ---------NVLLIDGPL-----SWYSDPGLAGVSLTG-GLSYKEDTKELVVA
OX40L  52 VSH---RYPRIQSIKVQFT---------EYKKEKG-----F--ILTS---QKEDE-IMKVQNN--SVIIN
CD27L  45 QQQLPLESLGWDVAELQLN---------HTGPQQDPRL-----YWQGGPALGRSFLH--GPELDKG--QLRIH
CD30L  87 LCILKRAPFKKSWAYLQVA---------KHLNKTKL-----SWNKD-----GILH--GVRYQDG--NLVIQ
TNF    77 VRSSSRTPSDKPVAHVVAN---------PQAEGQL-----QWLNRRAN--ALLAN-GVELRDN--QLVVP
LTb    77 EEPETDLSPGLPAAHLIGA---------PLKGQGL-----GWETTKEQ--AFLTS-GTQFSDA-EGLALP
LTa    52 PKMHLAHSTLKPAAHLIGD---------PSKQNSL-----LWRANTDR--AFLQD-GFSLSNN--SLLVP
CD40L 113 MQ--KGDQNPQIAAHVISE---------ASSKTTSVL-----QWAEKGYY--TMSNN-LVTLENG-KQLTVK
Apo1L 134 PSPPPEKKELRKVAHLTGK---------SNSRSMPL-----EWEDTYGIV-VLLS--GVKYKKG--GLVIN
Apo2L 114 VRE---RGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGH-SFLS--NLHLRNG--ELVIH

          --------D--------                  --------E--------          --------F--------
41BBL 137 KAGVYYVFFQLELRRVVAGEGS----GSVSLALHLQPLRSAAGAAALALTVDLPPAS---------
OX40L  97 CDGFYFISLKGYF-SQE---------VNISLH-YQKDE--EP-LFQLKKVRSVN----------
CD27L 100 RDGIYMVHIQVTLAICSSTTASRH--HPTTFAVGICSPAS----RSISLLRLSFH----------
CD30L 135 FPGLYFIICQLQFLVQCP-------NNSVDLKLELLINKHI---KKQALVTVCES----------
TNF   128 SEGLYLIYSQVLFKGQGCP------STHVLLTHTISRIAVSY-QTKVNLLSAIKSPCQRETPE---
LTb   129 QDGLYYIYCLVGYRGRAPPGGGDPQGRSVTLRSSLYRAGGAYGPGTPELLLEGAETVTPVLDPARR
LTa   103 TSGIYFVYSQVVFSGKAYSPKAT--SSPLYLAHEVQLFSSQY-PFHVPLLSSQKMVYPGL------
CD40L 165 RQGLYYIYAQVTFCSNREA-----SSQAPFIASLCLKSPGR---FERILLRAANTHSSAK------
Apo1L 186 ETGLYFVYSKVYFRGQSC--------NNLPLSHKVYMRNSKY-PQDLVMMEGKMMSYCTT------
Apo2L 178 EKGFYYIYSQVTFRFQEEIKENTK--NDKQHVQYIYKYTS-Y-PDPILLMKSARNSCWSKDA----

          --------G--------     -----H----                                  --I--
41BBL 190 ----SEARNSAFGFQGRLLHLS-AGQRLGVHLHTEARARHAWQLTQGATVLGLFRVTPEIPAGLPSPRSE
OX40L 137 --------SLMVASLTYKDK-----VYFNVTTDNT-SLDDFHVNGGELILIHQNPGEFCVL
CD27L 149 ----FHQGCTIVSQRLTPLAR---GDTFCTNLTGTL-LPSRNTD-------ETFFGVQWVRP
CD30L 180 ---GMQTKHVYQNLSQFLLDYLQVNTTISVNVDTFQYI-DTSTFPLEN--VLSIFLYSNSD
TNF   184 GAEAKPWYEPIYLGGVFQLEKG---DRLSAEINRPDYL-DFAESG------QVYFGIIAL
LTb   195 QGYGPLWYTSVGFGGLVQLRRG---SGRVMVNISHPDMY-DYARG-------KTFFGAVMVG
LTa   160 ---QEPWLHVEYMKGALMLTQK---GDQLSTHTDGIPHLVLSPST-------VVFFGAFAL
CD40L 217 ----PCGQQSIHLGGVFELQP---GASVFVNVTDPSQVSHGTG--------FTSFGLLKL
Apo1L 237 ---GQMWARSSYLGAVFNLTS---ADHLYVNVSELSLVNFEES-------QTFFGLYKL
Apo2L 236 ---EYGLY-SIYQGGIFELKE---NDRIFVSVTNEHLIDMDHE-------ASFFGAFLVG
```

FIG. 1C

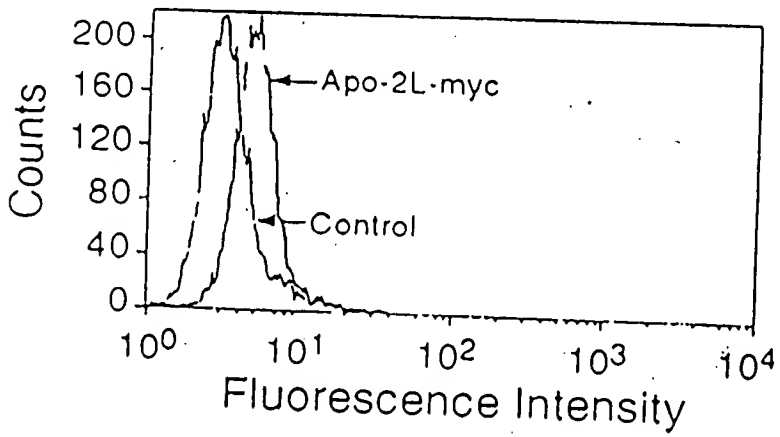


FIG. 1D

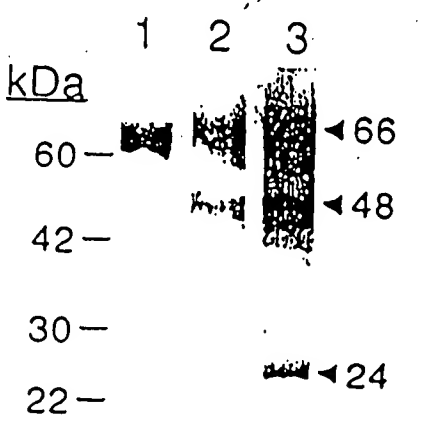
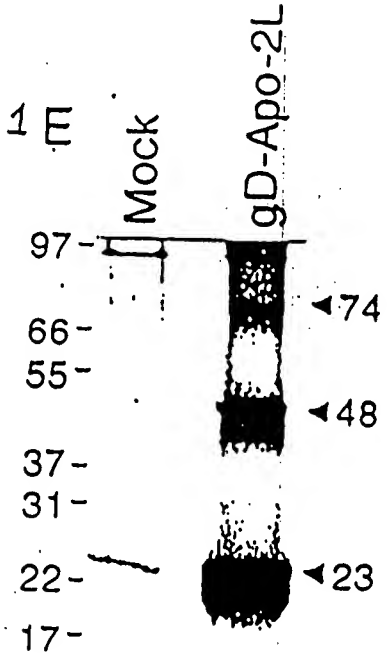


FIG. 1E



09479252.010700

FIG. 2A 9D cells

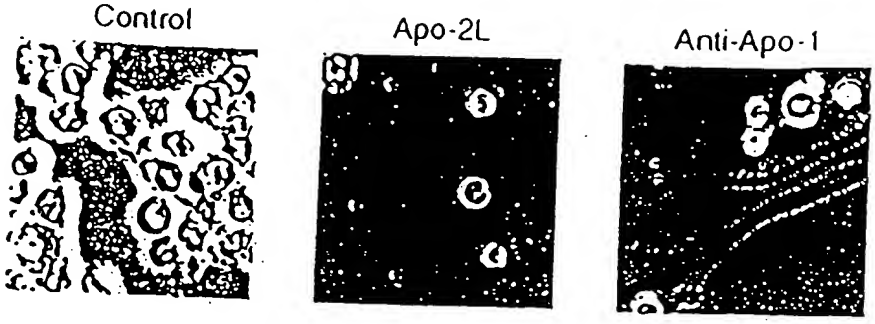


FIG. 2B 9D cells

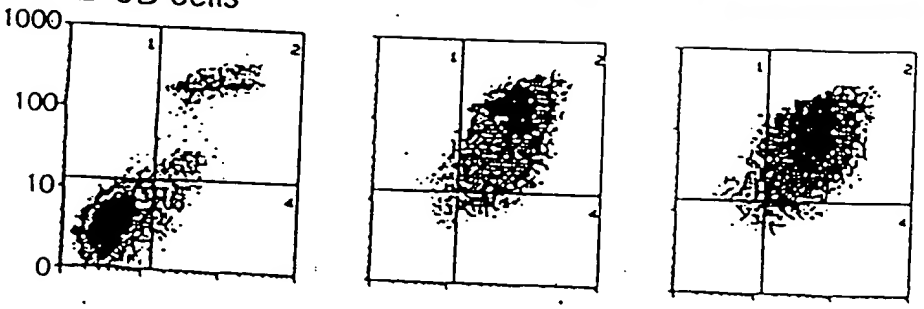


FIG. 2C Raji cells

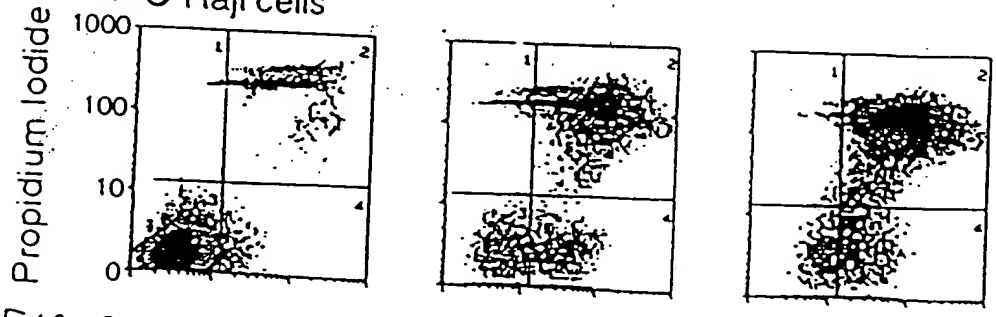


FIG. 2D Jurkat cells

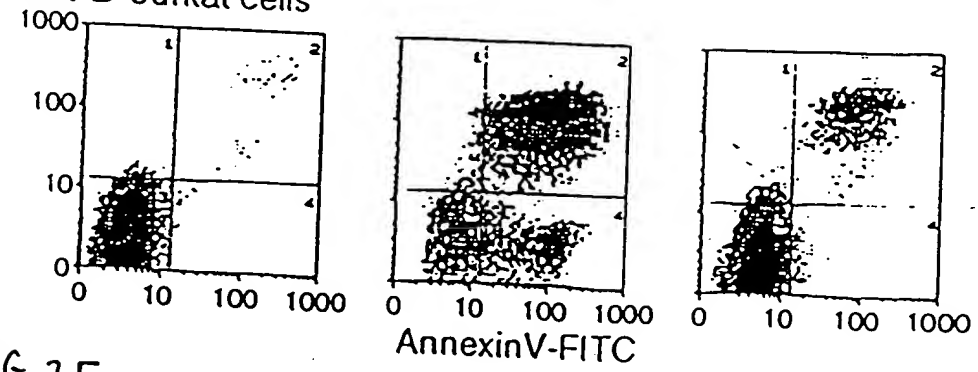


FIG. 2E

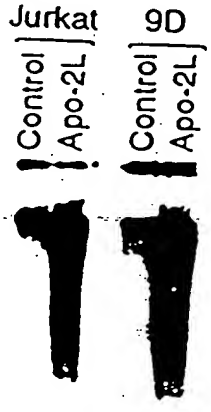


FIG. 3 A

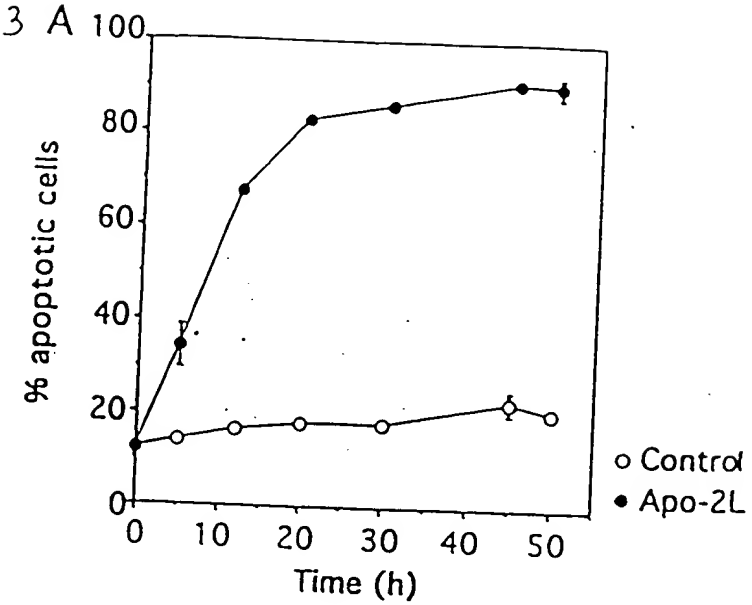


FIG. 3 B

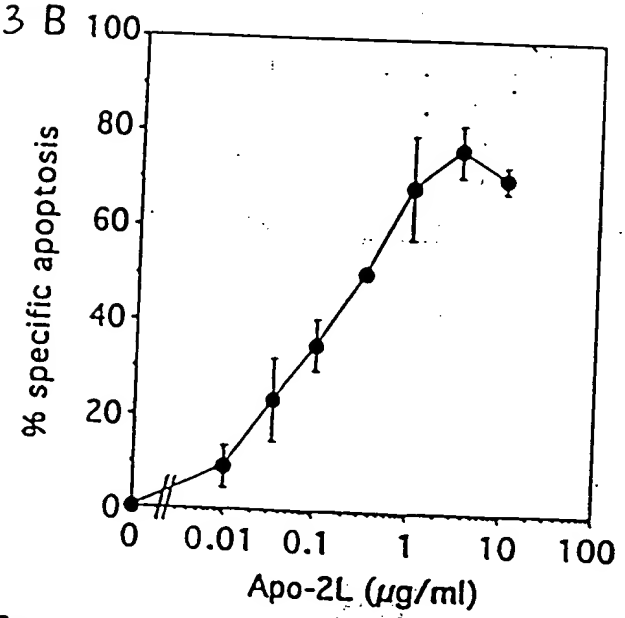
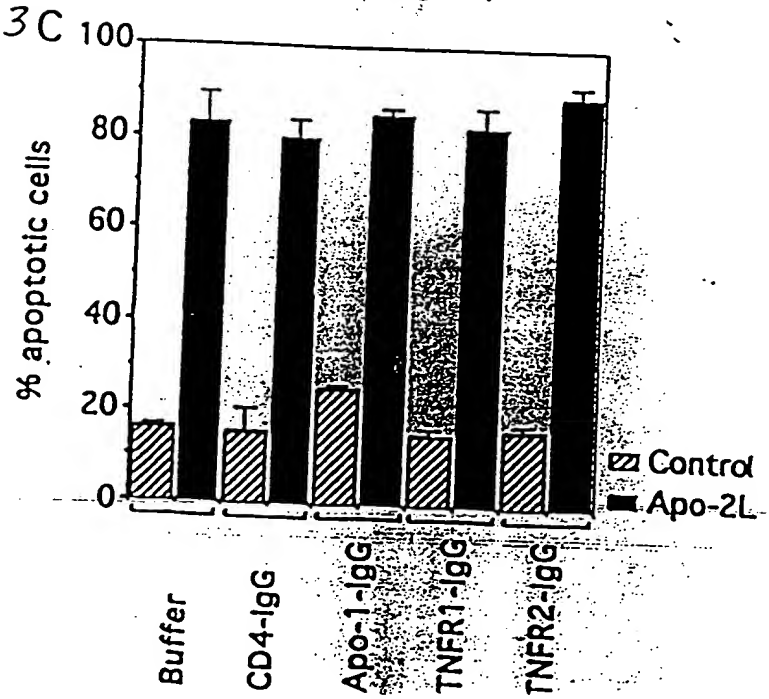
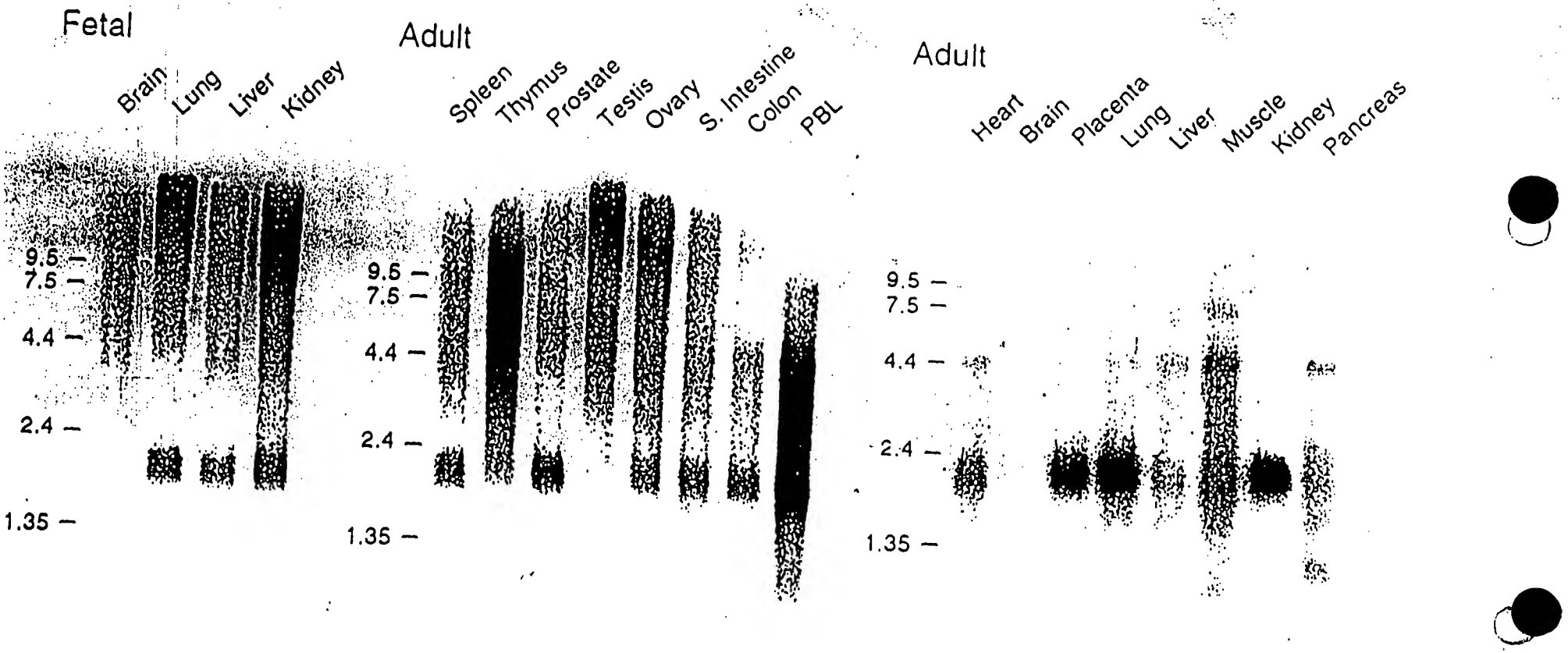


FIG. 3C



WO 2004/025362 PCT/US2003/028760

FIG. 4



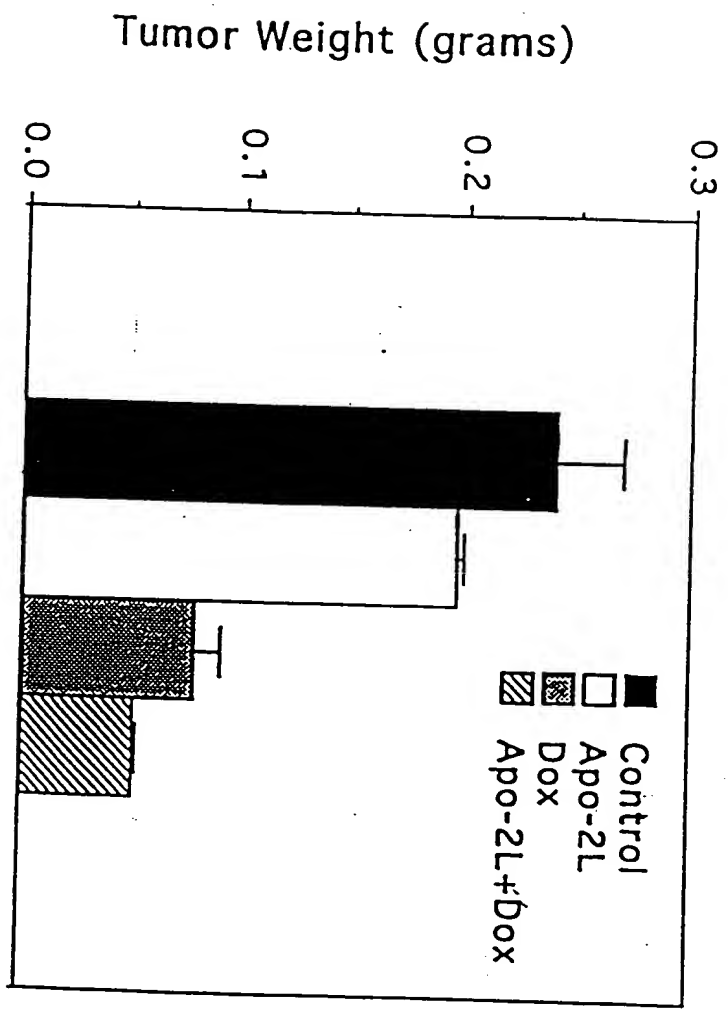


Fig. 5

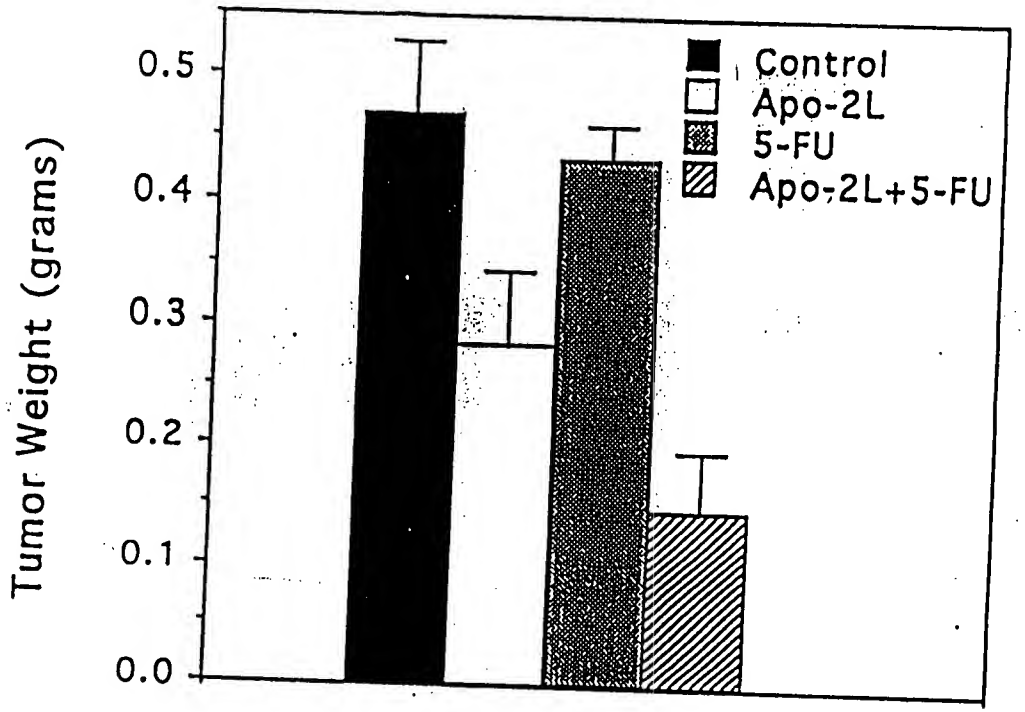


Fig. 6

09475252.010700

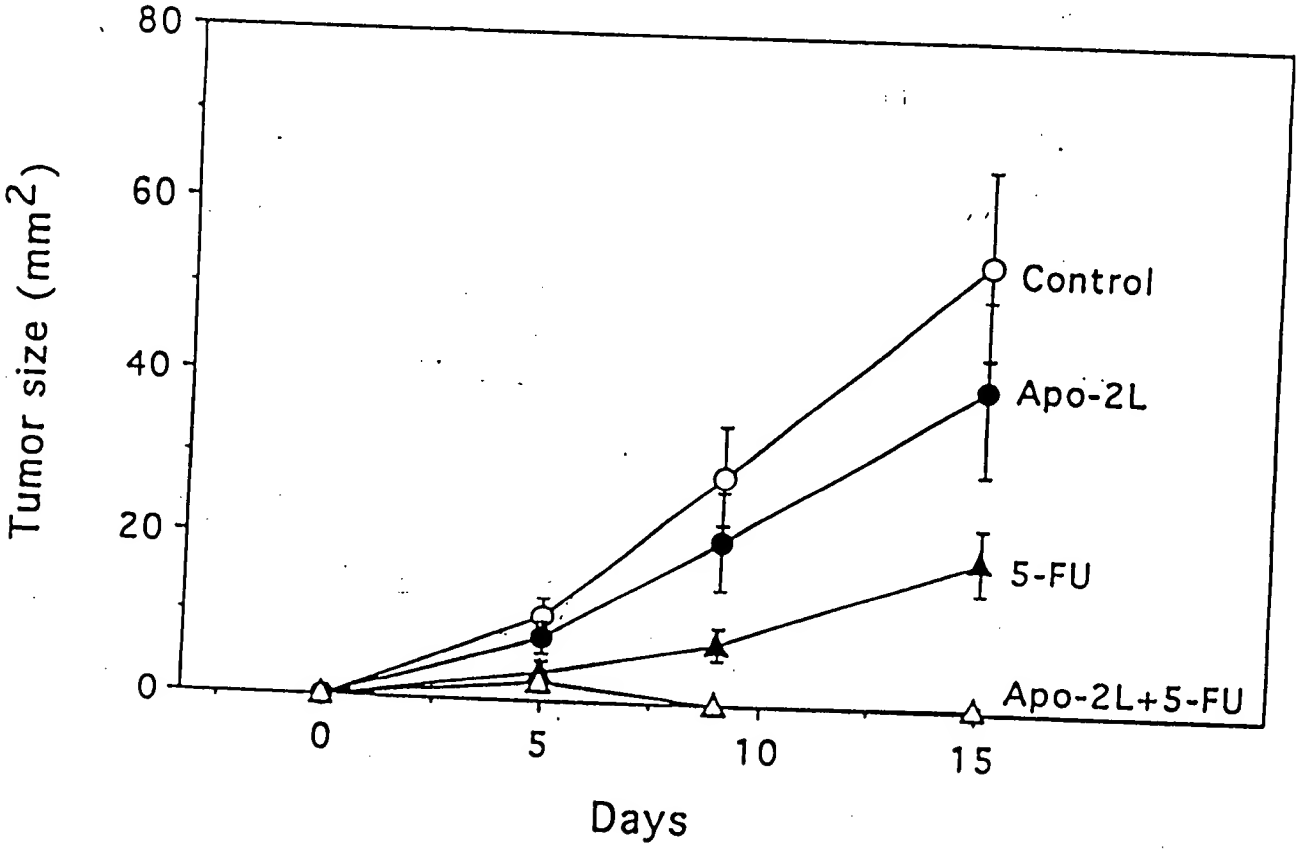


Fig. 7

0947925201.0107206

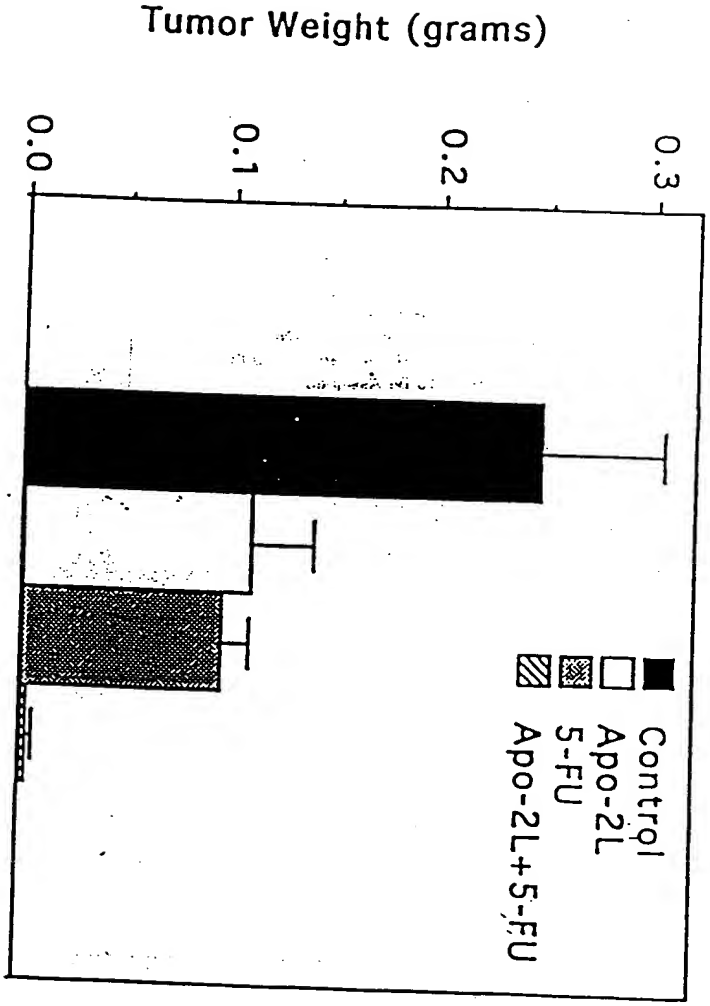


Fig. 8

WO 98/07859 PCT/US97/14760

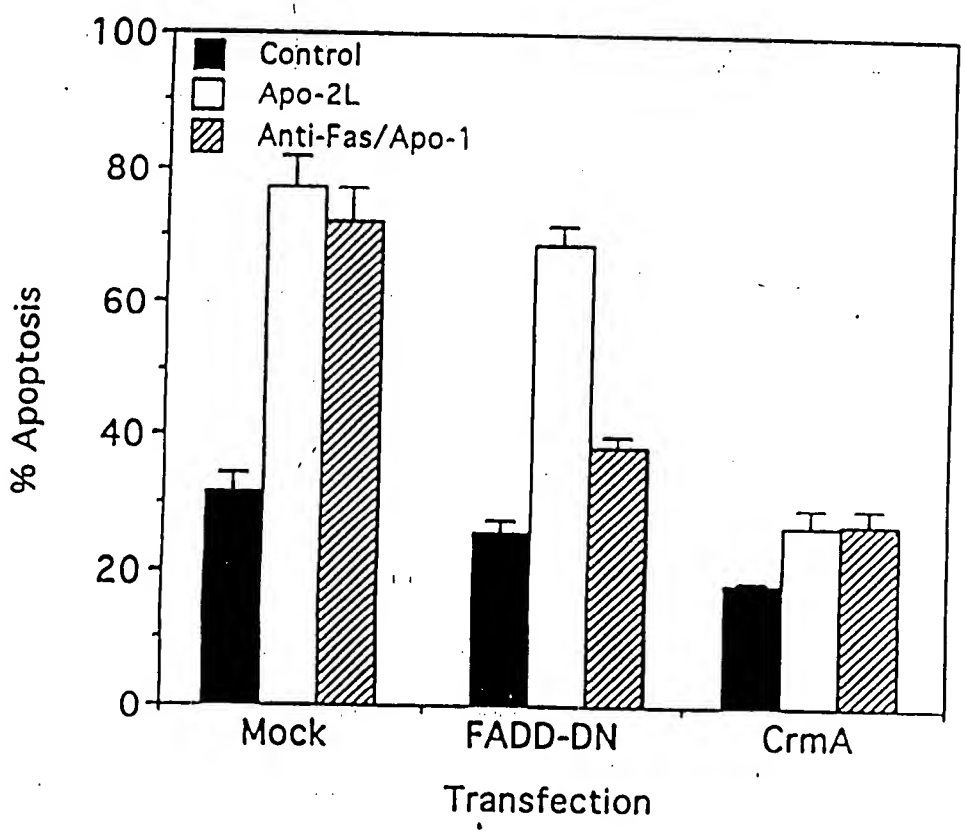


Fig. 9

Fig. 10

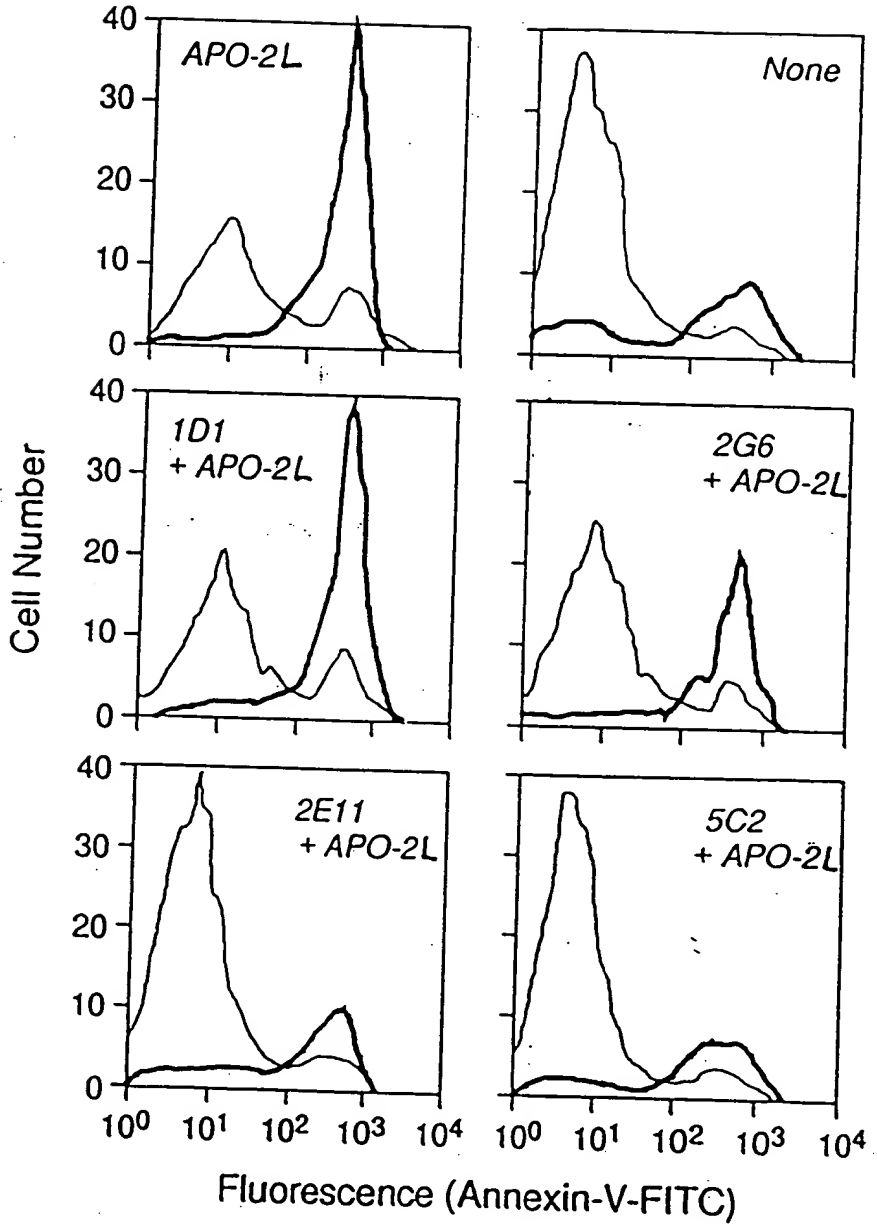

APO-2L
None
1D1
+ APO-2L
2G6
+ APO-2L
2E11
+ APO-2L
5C2
+ APO-2L
Cell Number
Fluorescence (Annexin-V-FITC)
0
10
20
30
40
10^0
10^1
10^2
10^3
10^4

Fig. 11

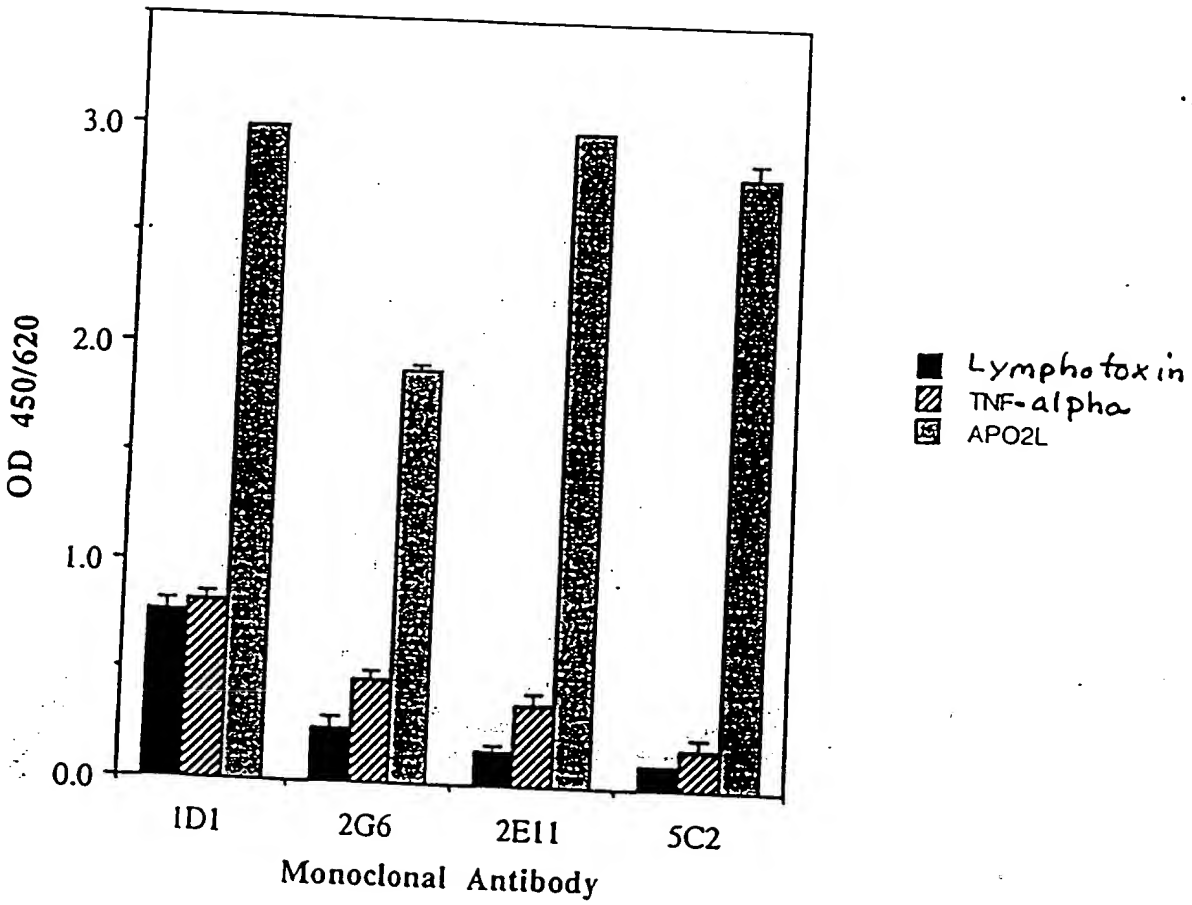
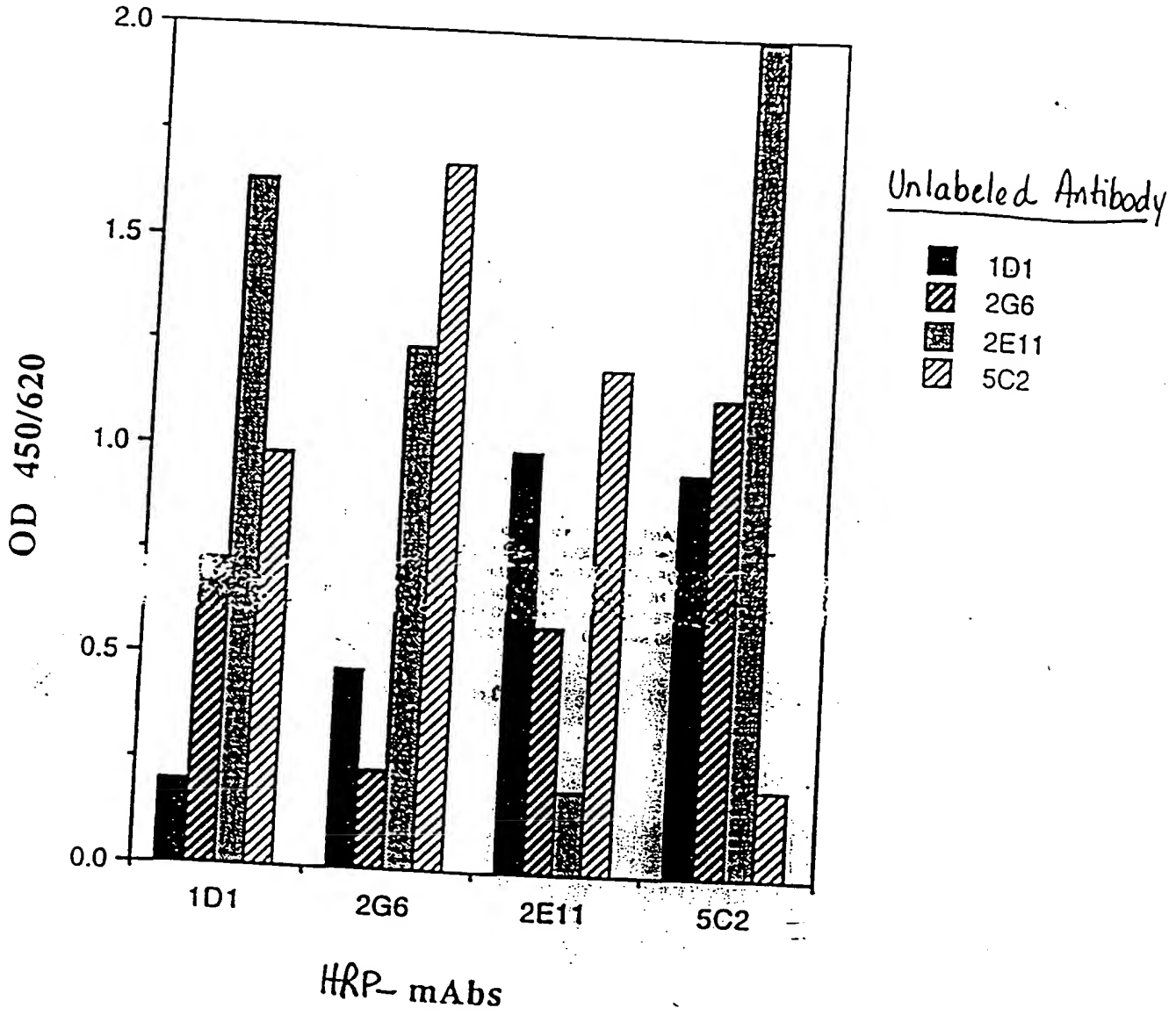

3.0
2.0
1.0
0.0
OD 450/620
1D1
2G6
2E11
5C2
Monoclonal Antibody
Lymphotoxin
TNF-alpha
APO2L

Fig. 12



DRAFT - 05/05/06

Fig. 13

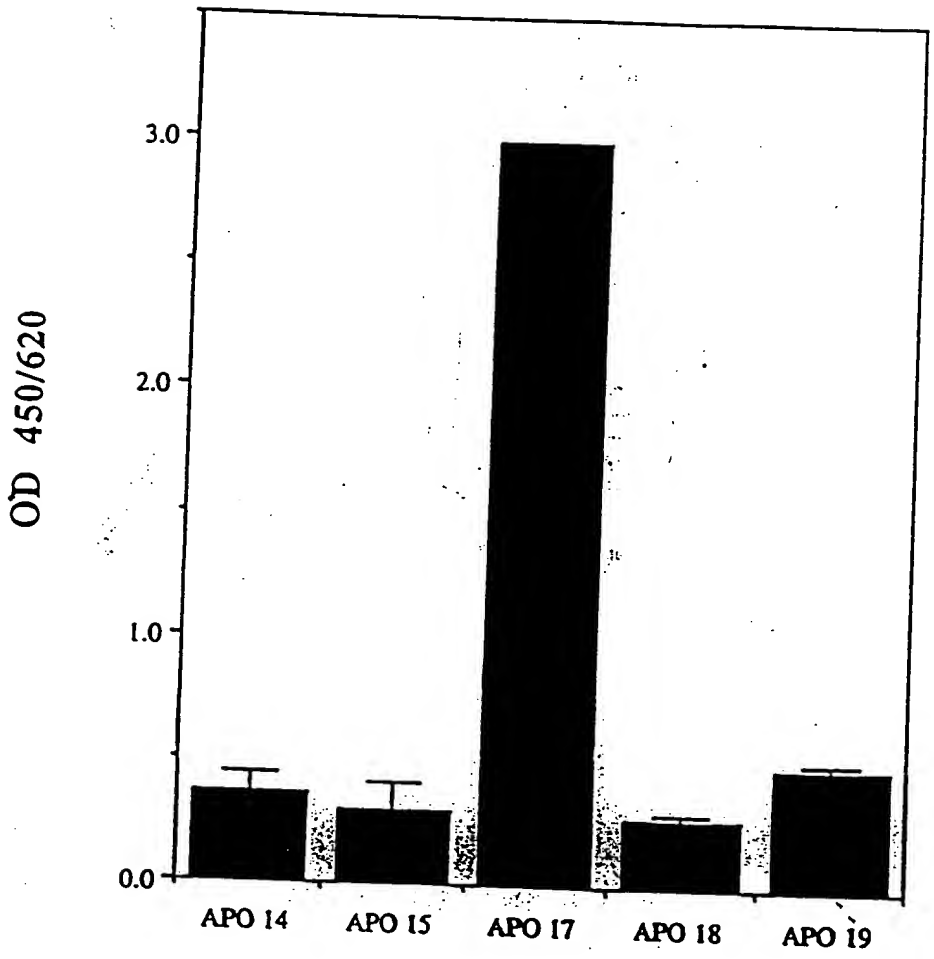
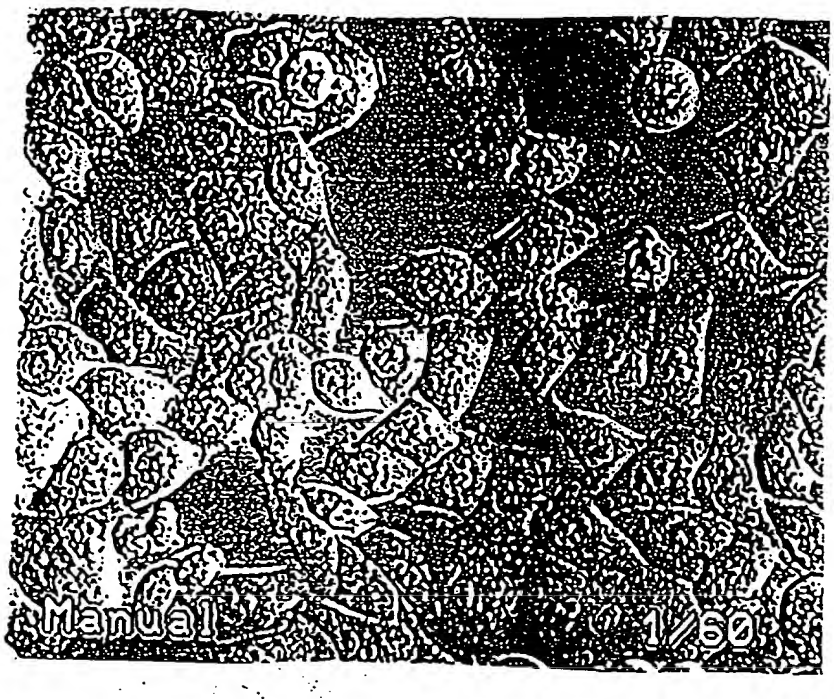
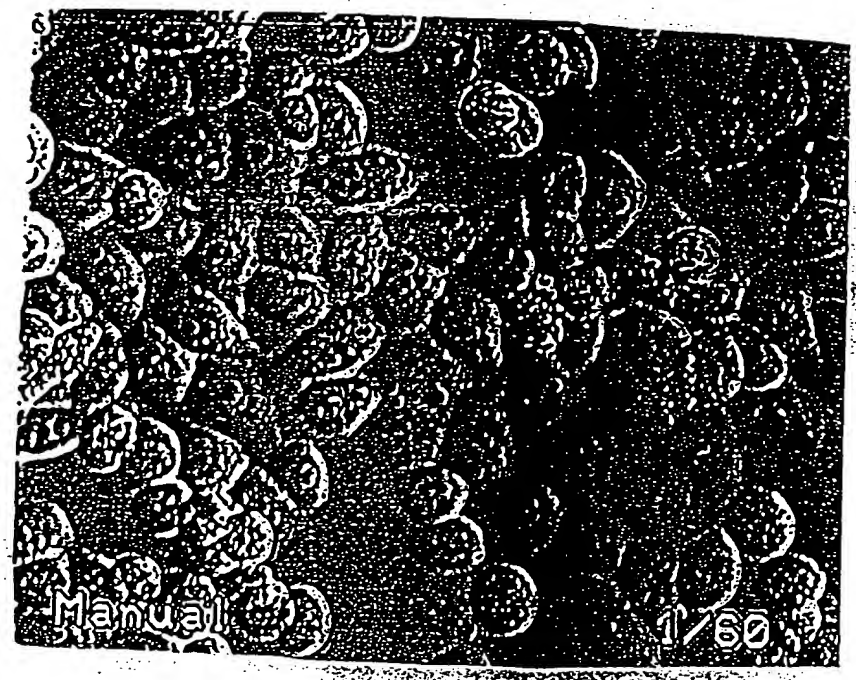

OD 450/620
3.0
2.0
1.0
0.0
APO 14
APO 15
APO 17
APO 18
APO 19
Synthetic peptide

Fig. 14A



Unconditioned Medium

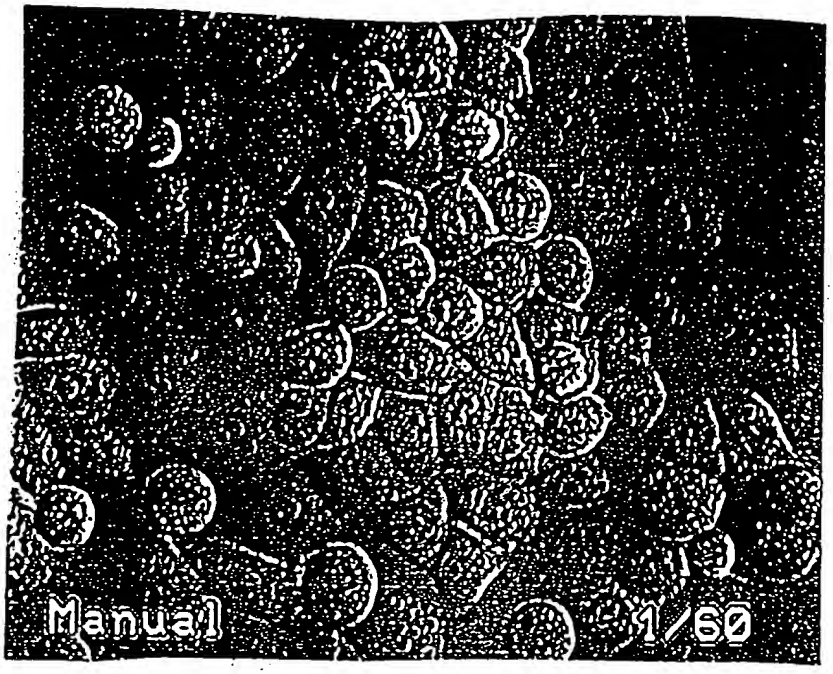
Fig. 14B



1:10

09/760,459 - 2000-04-06

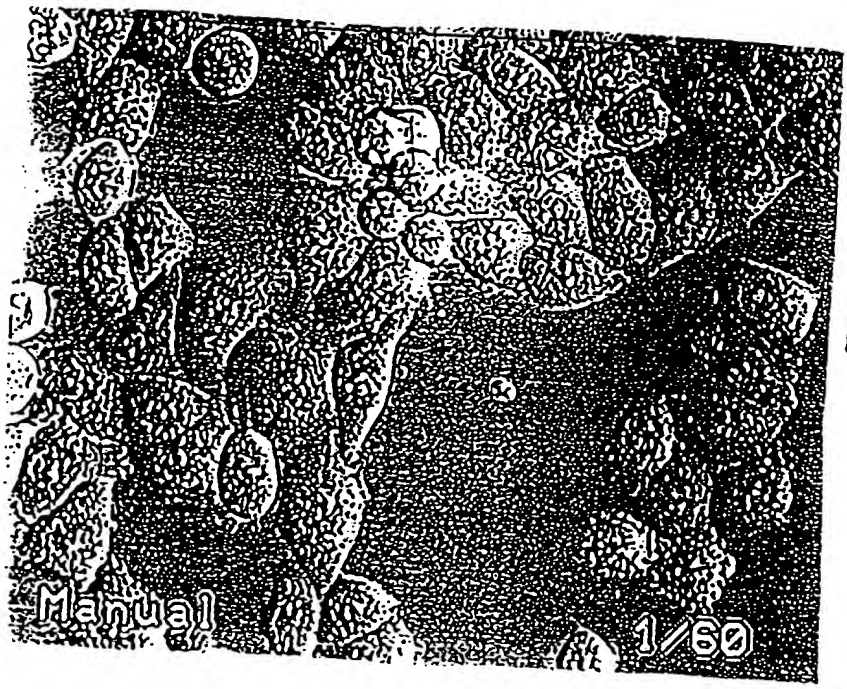
Fig. 14C



1:20

09475555.050600

Fig. 14D



1:40

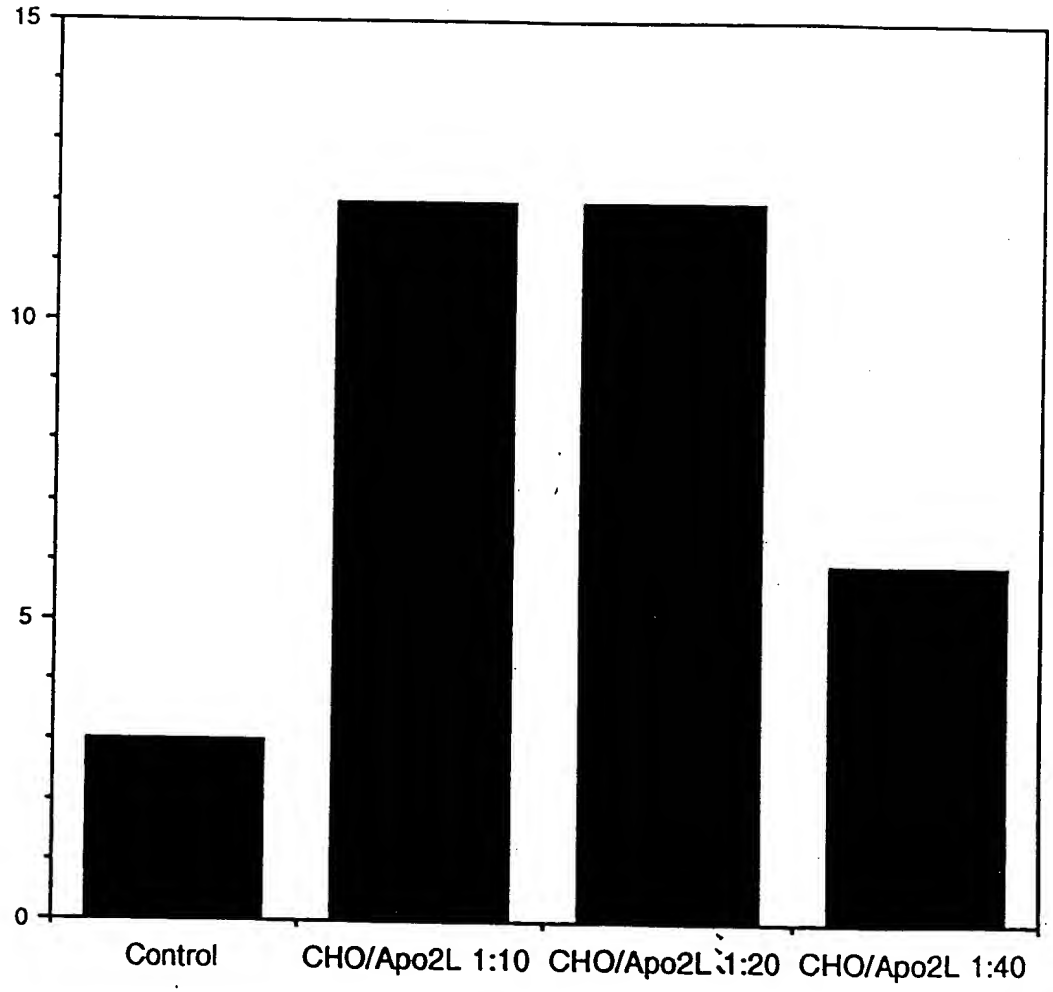

Apoptotic cells/field
15
10
5
0
Control
CHO/Apo2L 1:10
CHO/Apo2L 1:20
CHO/Apo2L 1:40

Fig. 14E

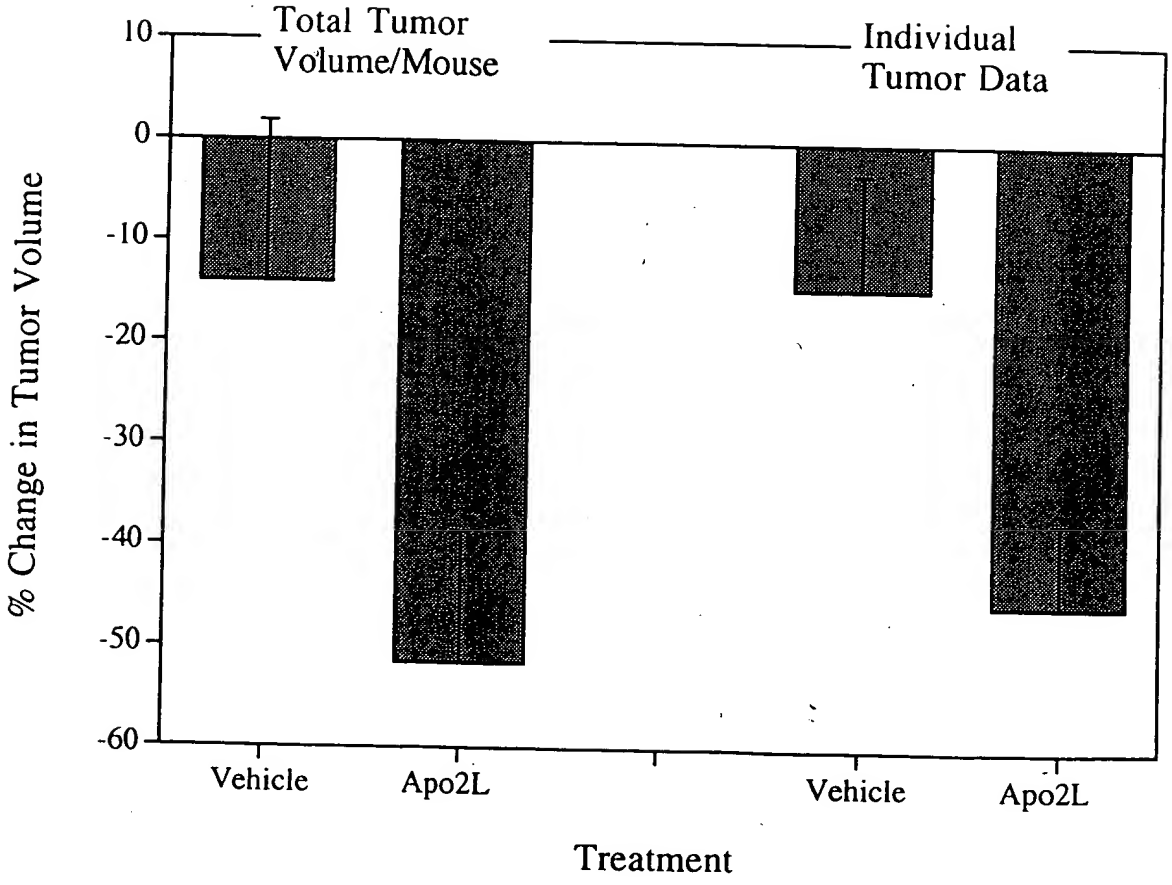

Total Tumor Volume/Mouse
Individual Tumor Data
10
0
-10
-20
-30
-40
-50
-60
% Change in Tumor Volume
Vehicle
Apo2L
Vehicle
Apo2L
Treatment

Fig. 15